

Docket No.: LGE-012

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :  
: Jin-Soo LEE, Heon-Jun KIM  
and Jung Min SONG :  
Serial No. New U.S. Patent Application :  
Filed: July 20, 2001 :  
For: MULTIMEDIA QUERY SYSTEM USING NON-UNIFORM BIN  
QUANTIZATION OF COLOR HISTOGRAM

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D. C. 20231

Sir:

Prior to initial examination on the merits, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please amend the specification by replacing paragraphs as follows:

A. Specification Paragraphs With Mark-ups to Show Changes Made

The following are mark-ups to show changes made to the paragraph starting at page 9, line 20 and ending at page 10, line 3:

Fig. 5 describes a HMMD color space for explaining a progressive color histogram using the HMMD color space in accordance with the embodiment of the present invention. The HMMD color space is a color space of a double cone shape. The HMMD color space is described in U.S. Application Serial Nos. 09/239,773 filed April 29, 1999 and 09/865,459 filed May 29, 2001, which is assigned to the same entity, and the entire disclosure thereof is incorporated herein by reference. The central axis thereof is represented as  $SUM ((MAX(RGB) + MIN(RGB))/2)$ , which corresponds to brightness. Fineness is increased in the order of center to peripheral sides of the cone, which is represented as  $DIFF(MAX(RGB)-MIN(RGB))$ . The angle of the cone indicates a color, which is generally represented as Hue.

**B. Clean Specification Changes**

Please replace the paragraph starting at page 9, line 20 and ending at page 10, line 3 with the following paragraph:

Fig. 5 describes a HMMD color space for explaining a progressive color histogram using the HMMD color space in accordance with the embodiment of the present invention. The HMMD color space is a color space of a double cone shape. The HMMD color space is described in U.S. Application Serial Nos. 09/239,773 filed April 29, 1999 and 09/865,459 filed May 29, 2001, which is assigned to the same entity, and the entire disclosure thereof is incorporated herein by reference. The central axis thereof is represented as  $SUM ([MAX(RGB) + MIN(RGB)]/2)$ , which corresponds to brightness. Fineness is increased in the order of center to peripheral sides of the cone, which is represented as  $DIFF(MAX(RGB)-MIN(RGB))$ . The angle of the cone indicates a color, which is generally represented as Hue.

**REMARKS**

Claims 1-10 are pending. By this Amendment, the paragraph on page 9, line 20 to page 10, line 3 is amended. Prompt examination and allowance in due course are respectfully solicited.

Respectfully submitted,  
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